

CLAIMS

What is claimed is:

5 1. A device for collection of concrete-like materials
from a storage reservoir or material distribution means, said
collection device comprising:

 a collapsible container adapted to be received proximate
the material reservoir or distribution means; and,

10 means adapted for at least partially supporting a portion
of said container,

whereby said container may receive the materials therewithin.

 2. The device of claim 1, wherein said collapsible
15 container further comprises:

 four sides, top and bottom, wherein said four sides
comprise length dimensions and height dimensions, and wherein
said height dimensions are less than or equal to said length
dimensions.

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 3. The device of claim 2, wherein said bottom comprises
dimensions, and wherein said length dimensions of said four

sides are equal to said dimensions of said bottom to which
said sides are attached.

4. The device of claim 2, wherein said top is at least
5 partially enclosed.

5. The device of claim 4, further comprising means for
permitting entry of concrete-like materials into said
collapsible container.

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6. The device of claim 5, wherein said means for
permitting entry is a substantially rectangular opening.

7. The device of claim 6, wherein said means for
15 permitting entry is substantially centrally located within
said top.

8. The device of claim 6, wherein said top has a center
and wherein said means for permitting entry is located between
20 said center of said top and one of said sides.

9. The device of claim 5, wherein said means for
permitting entry is a tube.

10. The device of claim 9, wherein said tube is carried
by said top.

5 11. The device of claim 9, wherein said tube is carried
by one of said sides.

12. The device of claim 9, wherein said tube is
substantially cylindrical.

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13. The device of claim 4, wherein said collapsible
container further comprises vents, whereby air can exit from
said device.

15 14. The device of claim 2, wherein said top is
substantially open.

15. The device of claim 2, wherein said top has a
periphery.

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16. The device of claim 15, further comprising
reinforcements around said periphery of said top.

17. The device of claim 5, wherein said means for
permitting entry has a periphery.

18. The device of claim 17, further comprising
5 reinforcements around said periphery of said means for
permitting entry.

19. The device of claim 1, wherein said means adapted
for at least partially supporting a portion of said container
10 comprises loop supports.

20. The device of claim 19, wherein said sides form
junctions therebetween, and wherein said loop supports are
carried by said junctions.
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21. The device of claim 19, wherein said loop supports
are constructed from a material selected from the group
consisting of fabric, metal, reinforced fabric, and plastic.

22. The device of claim 21, wherein said means adapted
for partially supporting comprises loop supports and
reinforcement extensions, and wherein said reinforcement
extensions pass through said loop supports.
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23. The device of claim 22, wherein said reinforcement extensions further comprise support attachment means.

5 24.. The device of claim 1, wherein said collapsible container further comprises a material that permits water to exit therefrom without permitting concrete particles to exit therefrom.

10 25. The device of claim 24, wherein said material comprises a polymer.

26. The device of claim 24, wherein said material is selected from the group consisting of polyolefins and nylon.
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27. The device of claim 26, wherein said material comprises woven polypropylene.

28. The device of claim 19, further comprising extension
20 straps attached to said loop supports.

29. The device of claim 28, wherein said extension straps comprise bungee cords.

30. The device of claim 28, further comprising means for affixing said extension straps to a support point.

5 31. The device of claim 1, wherein said collapsible container is of round cross-section.

32. The device of claim 1, wherein said collapsible container comprises any generally prismatic shape.

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33. A device for collection of concrete-like materials from a storage reservoir or material distribution means, said collection device comprising:

15 a collapsible container adapted to be received proximate the material reservoir or distribution means; and, means adapted for at least partially supporting a portion of said container by the material reservoir or distribution means.

20 34. The device of claim 33, wherein said collapsible container further comprises:

four sides, top and bottom, wherein said four sides comprise length dimensions and height dimensions, and

wherein said height dimensions are less than or equal to
said length dimensions.

35. The device of claim 34, wherein said bottom
5 comprises dimensions, and wherein said length dimensions of
said four sides are equal to said dimensions of said bottom to
which said sides are attached.

36. The device of claim 34, wherein said top is at least
10 partially enclosed.

37. The device of claim 36, further comprising means for
permitting entry of concrete-like materials into said
collapsible container.
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38. The device of claim 37, wherein said means for
permitting entry is a substantially rectangular opening.

39. The device of claim 38, wherein said means for
20 permitting entry is substantially centrally located within
said top.

40. The device of claim 38, wherein said top has a center and wherein said means for permitting entry is located between said center of said top and one of said sides.

5 41. The device of claim 37, wherein said means for permitting entry is a tube.

42. The device of claim 41, wherein said tube is carried by said top.

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43. The device of claim 41, wherein said tube is carried by one of said sides.

44. The device of claim 41, wherein said tube is
15 substantially cylindrical.

45. The device of claim 36, wherein said collapsible container further comprises vents, whereby air can exit from said device.

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46. The device of claim 34, wherein said top is substantially open.

47. The device of claim 34, wherein said top has a
periphery.

48. The device of claim 47, further comprising
5 reinforcements around said periphery of said top.

49. The device of claim 37, wherein said means for
permitting entry has a periphery.

10 50. The device of claim 49, further comprising
reinforcements around said periphery of said means for
permitting entry.

51. The device of claim 33, wherein said means adapted
15 for at least partially supporting a portion of said container
comprises loop supports.

52. The device of claim 51, wherein said sides form
junctions therebetween, and wherein said loop supports are
20 carried by said junctions.

53. The device of claim 51, wherein said loop supports are constructed from a material selected from the group consisting of fabric, metal, reinforced fabric, and plastic.

5 54. The device of claim 53, wherein said means adapted for partially supporting comprises loop supports and reinforcement extensions, and wherein said reinforcement extensions pass through said loop supports.

10 55. The device of claim 54, wherein said reinforcement extensions further comprise support attachment means.

56. The device of claim 33, wherein said collapsible container further comprises a material that permits water to
15 exit therefrom without permitting concrete particles to exit therefrom.

57. The device of claim 56, wherein said material comprises a polymer.

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58. The device of claim 56, wherein said material is selected from the group consisting of polyolefins and nylon.

59. The device of claim 58, wherein said material comprises woven polypropylene.

60. The device of claim 51, further comprising extension
5 straps attached to said loop supports.

61. The device of claim 60, wherein said extension straps comprise bungee cords.

10 62. The device of claim 60, further comprising means for affixing said extension straps to a support point.

63. The device of claim 33, wherein said collapsible container is generally of round cross-section.

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64. The device of claim 33, wherein said collapsible container comprises any generally prismatic shape.

65. A device for collection of concrete-like materials
20 from a storage reservoir or material distribution means, said collection device comprising:

a collapsible container adapted to be received proximate the material reservoir or distribution means; and,

means adapted for at least partially supporting an upper portion of said container for receipt of the materials therewithin.

5 66. The device of claim 65, wherein said collapsible container further comprises:

four sides, top and bottom, wherein said four sides comprise length dimensions and height dimensions, and wherein said height dimensions are less than or equal to
10 said length dimensions.

67. The device of claim 66, wherein said bottom comprises dimensions, and wherein said length dimensions of said four sides are equal to said dimensions of said bottom to
15 which said sides are attached.

68. The device of claim 67, wherein said top is at least partially enclosed.

20 69. The device of claim 68 further comprising means for permitting entry of concrete-like materials into said collapsible container.

70. The device of claim 69, wherein said means for permitting entry is a substantially rectangular opening.

71. The device of claim 70, wherein said means for
5 permitting entry is substantially centrally located within
said top.

72. The device of claim 70, wherein said top has a
center and wherein said means for permitting entry is located
10 between said center of said top and one of said sides.

73. The device of claim 69, wherein said means for permitting entry is a tube.

15 74. The device of claim 73, wherein said tube is carried
by said top.

75. The device of claim 73, wherein said tube is carried
by one of said sides.

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76. The device of claim 73, wherein said tube is
substantially cylindrical.

77. The device of claim 68, wherein said collapsible container further comprises vents, whereby air can exit from said device.

5 78. The device of claim 66, wherein said top is substantially open.

79. The device of claim 66, wherein said top has a periphery.

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80. The device of claim 79, further comprising reinforcements around said periphery of said top.

81. The device of claim 69, wherein said means for
15 permitting entry has a periphery.

82. The device of claim 81, further comprising reinforcements around said periphery of said means for permitting entry.

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83. The device of claim 65, wherein said means adapted for at least partially supporting a portion of said container comprises loop supports.

84. The device of claim 83, wherein said sides form junctions therebetween, and wherein said loop supports are carried by said junctions.

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85. The device of claim 83, wherein said loop supports are constructed from a material selected from the group consisting of fabric, metal, reinforced fabric, and plastic.

10 86. The device of claim 85, wherein said means adapted for partially supporting comprises loop supports and reinforcement extensions, and wherein said reinforcement extensions pass through said loop supports.

15 87. The device of claim 86, wherein said reinforcement extensions further comprise support attachment means.

88. The device of claim 65, wherein said collapsible container further comprises a material that permits water to
20 exit therefrom without permitting concrete particles to exit therefrom.

89. The device of claim 88, wherein said material comprises a polymer.

90. The device of claim 88, wherein said material is
5 selected from the group consisting of polyolefins and nylon.

91. The device of claim 90, wherein said material comprises woven polypropylene.

10 92. The device of claim 83, further comprising extension straps attached to said loop supports.

93. The device of claim 92, wherein said extension straps comprise bungee cords.

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94. The device of claim 92, further comprising means for affixing said extension straps to a support point.

95. The device of claim 65, wherein said collapsible
20 container is generally round.

96. The device of claim 65, wherein said collapsible container comprises any generally prismatic shape.

97. A device for collection of concrete-like materials comprising:

bag section, having top, bottom and at least one side;

5 support loops; and

inflatable section carried by said at least one side proximate said bottom.

98. The device of claim 97, wherein said at least one
10 side comprises four sides.

99. The device of claim 98, wherein said inflatable section further comprises tying supports, wherein said tying supports extend between at least two of said four sides.

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100. The device of claim 97, wherein said at least one side is circular.

101. A method for collection of concrete-like materials
20 comprising the steps of:

a. providing a source of concrete to be collected;

b. providing at least one collapsible container for containing concrete to be collected;

c. providing an opening in said at least one collapsible container to permit flow of concrete to be collected;

d. providing means for supporting said at least one
5 collapsible container under the source of concrete to be collected;

e. expanding said at least one collapsible container;

f. at least partially supporting said at least one collapsible container from the source of concrete to be
10 collected; and,

g. flowing the concrete to be collected into said at least one collapsible container through said opening.

102. The method of claim 101, further comprising the
15 step, between steps f and g, of securing said at least one collapsible container via means for attachment to said source of concrete to be collected.

103. The method of claim 101, further comprising the step
20 of:

allowing water to seep out of said container, whereby the concrete is dewatered and solidified.

104. The method of claim 101, further comprising the steps of:

- h. removing said container; and
- i. recycling contents of said container.

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105. A method of collecting concrete-like materials comprising the steps of:

obtaining at least one collapsible container;

expanding said at least one collapsible container;

10 placing said at least one collapsible container to receive discharge from a concrete-like material source;

attaching at least one collapsible container to a support point; and

15 discharging concrete-like materials into said at least one collapsible container.

106. A method for collecting concrete-like materials comprising the steps of:

20 obtaining at least one collapsible container, wherein said collapsible container comprises at least one inflatable section;

placing said at least one collapsible container under a source of concrete-like material;

inflating said at least one inflatable section; and
discharging concrete-like material into said at least one
collapsible container.

5 107. The method of claim 106, further comprising removing
said source of concrete-like material.

108. A device for collection of concrete-like materials
from a storage reservoir or material distribution means, said
10 collection device comprising:

 a water impermeable, collapsible container adapted to be
 received proximate the material reservoir or distribution
 means; and,
 means adapted for at least partially supporting a portion
15 of said container,
whereby said container may receive the materials therewithin.

109. The device of claim 108 wherein said water
impermeable container comprises a liner.

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